SEQUENCE LISTING

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<120> ANTIBODY AGAINST VON WILLEBRAND FACTOR CLEAVING ENZYME
AND ASSAY SYSTEM USING THE SAME

<130> 081356-0237

<140> 10/529,009
<141> 2005-03-24

<150> PCT/JP03/12280
<151> 2003-09-25

<150> JP 2002-279924
<151> 2002-09-25

<150> JP 2002-377569
<151> 2002-12-26

<160> 24

<170> PatentIn version 3.5

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<212> PRT
<213> Homo sapiens

<400> 1

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Gly Ile Leu Ala Cys Gly Phe Leu Leu Gly Cys Trp Gly Pro Ser His
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Phe Gln Gln Ser Cys Leu Gln Ala Leu Glu Pro Gln Ala Val Ser Ser
        35                  40                  45

Tyr Leu Ser Pro Gly Ala Pro Leu Lys Gly Arg Pro Pro Ser Pro Gly
    50                  55                  60

Phe Gln Arg Gln Arg Gln Arg Gln Arg Arg Ala Ala Gly Gly Ile Leu
65                  70                  75                  80

His Leu Glu Leu Leu Val Ala Val Gly Pro Asp Val Phe Gln Ala His
                85                  90                  95

Gln Glu Asp Thr Glu Arg Tyr Val Leu Thr Asn Leu Asn Ile Gly Ala
            100                 105                 110
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Glu Leu Leu Arg Asp Pro Ser Leu Gly Ala Gln Phe Arg Val His Leu
        115                 120                 125

Val Lys Met Val Ile Leu Thr Glu Pro Glu Gly Ala Pro Asn Ile Thr
    130                 135                 140

Ala Asn Leu Thr Ser Ser Leu Leu Ser Val Cys Gly Trp Ser Gln Thr
145                 150                 155                 160

Ile Asn Pro Glu Asp Asp Thr Asp Pro Gly His Ala Asp Leu Val Leu
                165                 170                 175

Tyr Ile Thr Arg Phe Asp Leu Glu Leu Pro Asp Gly Asn Arg Gln Val
            180                 185                 190

Arg Gly Val Thr Gln Leu Gly Gly Ala Cys Ser Pro Thr Trp Ser Cys
        195                 200                 205

Leu Ile Thr Glu Asp Thr Gly Phe Asp Leu Gly Val Thr Ile Ala His
    210                 215                 220

Glu Ile Gly His Ser Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser
225                 230                 235                 240

Gly Cys Gly Pro Ser Gly His Val Met Ala Ser Asp Gly Ala Ala Pro
                245                 250                 255

Arg Ala Gly Leu Ala Trp Ser Pro Cys Ser Arg Arg Gln Leu Leu Ser
            260                 265                 270

Leu Leu Ser Ala Gly Arg Ala Arg Cys Val Trp Asp Pro Pro Arg Pro
        275                 280                 285

Gln Pro Gly Ser Ala Gly His Pro Pro Asp Ala Gln Pro Gly Leu Tyr
    290                 295                 300

Tyr Ser Ala Asn Glu Gln Cys Arg Val Ala Phe Gly Pro Lys Ala Val
305                 310                 315                 320

Ala Cys Thr Phe Ala Arg Glu His Leu Asp Met Cys Gln Ala Leu Ser
                325                 330                 335

Cys His Thr Asp Pro Leu Asp Gln Ser Ser Cys Ser Arg Leu Leu Val
            340                 345                 350

Pro Leu Leu Asp Gly Thr Glu Cys Gly Val Glu Lys Trp Cys Ser Lys
        355                 360                 365
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Gly Arg Cys Arg Ser Leu Val Glu Leu Thr Pro Ile Ala Ala Val His
    370                 375                 380

Gly Arg Trp Ser Ser Trp Gly Pro Arg Ser Pro Cys Ser Arg Ser Cys
385                 390                 395                 400

Gly Gly Gly Val Val Thr Arg Arg Arg Gln Cys Asn Asn Pro Arg Pro
                405                 410                 415

Ala Phe Gly Gly Arg Ala Cys Val Gly Ala Asp Leu Gln Ala Glu Met
            420                 425                 430

Cys Asn Thr Gln Ala Cys Glu Lys Thr Gln Leu Glu Phe Met Ser Gln
        435                 440                 445

Gln Cys Ala Arg Thr Asp Gly Gln Pro Leu Arg Ser Ser Pro Gly Gly
    450                 455                 460

Ala Ser Phe Tyr His Trp Gly Ala Ala Val Pro His Ser Gln Gly Asp
465                 470                 475                 480

Ala Leu Cys Arg His Met Cys Arg Ala Ile Gly Glu Ser Phe Ile Met
                485                 490                 495

Lys Arg Gly Asp Ser Phe Leu Asp Gly Thr Arg Cys Met Pro Ser Gly
            500                 505                 510

Pro Arg Glu Asp Gly Thr Leu Ser Leu Cys Val Ser Gly Ser Cys Arg
        515                 520                 525

Thr Phe Gly Cys Asp Gly Arg Met Asp Ser Gln Gln Val Trp Asp Arg
    530                 535                 540

Cys Gln Val Cys Gly Gly Asp Asn Ser Thr Cys Ser Pro Arg Lys Gly
545                 550                 555                 560

Ser Phe Thr Ala Gly Arg Ala Arg Glu Tyr Val Thr Phe Leu Thr Val
                565                 570                 575

Thr Pro Asn Leu Thr Ser Val Tyr Ile Ala Asn His Arg Pro Leu Phe
            580                 585                 590

Thr His Leu Ala Val Arg Ile Gly Gly Arg Tyr Val Val Ala Gly Lys
        595                 600                 605

Met Ser Ile Ser Pro Asn Thr Thr Tyr Pro Ser Leu Leu Glu Asp Gly
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610 615 620

Arg Val Glu Tyr Arg Val Ala Leu Thr Glu Asp Arg Leu Pro Arg Leu
625 630 635 640

Glu Glu Ile Arg Ile Trp Gly Pro Leu Gln Glu Asp Ala Asp Ile Gln
645 650 655

Val Tyr Arg Arg Tyr Gly Glu Glu Tyr Gly Asn Leu Thr Arg Pro Asp
660 665 670

Ile Thr Phe Thr Tyr Phe Gln Pro Lys Pro Arg Gln Ala Trp Val Trp
675 680 685

Ala Ala Val Arg Gly Pro Cys Ser Val Ser Cys Gly Ala Gly Leu Arg
690 695 700

Trp Val Asn Tyr Ser Cys Leu Asp Gln Ala Arg Lys Glu Leu Val Glu
705 710 715 720

Thr Val Gln Cys Gln Gly Ser Gln Gln Pro Pro Ala Trp Pro Glu Ala
725 730 735

Cys Val Leu Glu Pro Cys Pro Pro Tyr Trp Ala Val Gly Asp Phe Gly
740 745 750

Pro Cys Ser Ala Ser Cys Gly Gly Gly Leu Arg Glu Arg Pro Val Arg
755 760 765

Cys Val Glu Ala Gln Gly Ser Leu Leu Lys Thr Leu Pro Pro Ala Arg
770 775 780

Cys Arg Ala Gly Ala Gln Gln Pro Ala Val Ala Leu Glu Thr Cys Asn
785 790 795 800

Pro Gln Pro Cys Pro Ala Arg Trp Glu Val Ser Glu Pro Ser Ser Cys
805 810 815

Thr Ser Ala Gly Gly Ala Gly Leu Ala Leu Glu Asn Glu Thr Cys Val
820 825 830

Pro Gly Ala Asp Gly Leu Glu Ala Pro Val Thr Glu Gly Pro Gly Ser
835 840 845

Val Asp Glu Lys Leu Pro Ala Pro Glu Pro Cys Val Gly Met Ser Cys
850 855 860

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Pro Pro Gly Trp Gly His Leu Asp Ala Thr Ser Ala Gly Glu Lys Ala
865                 870                 875                 880

Pro Ser Pro Trp Gly Ser Ile Arg Thr Gly Ala Gln Ala Ala His Val
                885                 890                 895

Trp Thr Pro Ala Ala Gly Ser Cys Ser Val Ser Cys Gly Arg Gly Leu
            900                 905                 910

Met Glu Leu Arg Phe Leu Cys Met Asp Ser Ala Leu Arg Val Pro Val
        915                 920                 925

Gln Glu Glu Leu Cys Gly Leu Ala Ser Lys Pro Gly Ser Arg Arg Glu
    930                 935                 940

Val Cys Gln Ala Val Pro Cys Pro Ala Arg Trp Gln Tyr Lys Leu Ala
945                 950                 955                 960

Ala Cys Ser Val Ser Cys Gly Arg Gly Val Val Arg Arg Ile Leu Tyr
                965                 970                 975

Cys Ala Arg Ala His Gly Glu Asp Asp Gly Glu Glu Ile Leu Leu Asp
            980                 985                 990

Thr Gln Cys Gln Gly Leu Pro Arg  Pro Glu Pro Gln Glu  Ala Cys Ser
        995                 1000                1005

Leu Glu  Pro Cys Pro Pro Arg  Trp Lys Val Met Ser  Leu Gly Pro
    1010                1015                1020

Cys Ser  Ala Ser Cys Gly Leu  Gly Thr Ala Arg Arg  Ser Val Ala
    1025                1030                1035

Cys Val  Gln Leu Asp Gln Gly  Gln Asp Val Glu Val  Asp Glu Ala
    1040                1045                1050

Ala Cys  Ala Ala Leu Val Arg  Pro Glu Ala Ser Val  Pro Cys Leu
    1055                1060                1065

Ile Ala  Asp Cys Thr Tyr Arg  Trp His Val Gly Thr  Trp Met Glu
    1070                1075                1080

Cys Ser  Val Ser Cys Gly Asp  Gly Ile Gln Arg Arg  Arg Asp Thr
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Cys Leu  Gly Pro Gln Ala Gln  Ala Pro Val Pro Ala  Asp Phe Cys
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Gln His  Leu Pro Lys Pro Val  Thr Val Arg Gly Cys  Trp Ala Gly
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Pro Cys  Val Gly Gln Gly Thr  Pro Ser Leu Val Pro  His Glu Glu
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Ala Ala  Ala Pro Gly Arg Thr  Thr Ala Thr Pro Ala  Gly Ala Ser
    1145                1150                1155

Leu Glu  Trp Ser Gln Ala Arg  Gly Leu Leu Phe Ser  Pro Ala Pro
    1160                1165                1170

Gln Pro  Arg Arg Leu Leu Pro  Gly Pro Gln Glu Asn  Ser Val Gln
    1175                1180                1185

Ser Ser  Ala Cys Gly Arg Gln  His Leu Glu Pro Thr  Gly Thr Ile
    1190                1195                1200

Asp Met  Arg Gly Pro Gly Gln  Ala Asp Cys Ala Val  Ala Ile Gly
    1205                1210                1215

Arg Pro  Leu Gly Glu Val Val  Thr Leu Arg Val Leu  Glu Ser Ser
    1220                1225                1230

Leu Asn  Cys Ser Ala Gly Asp  Met Leu Leu Leu Trp  Gly Arg Leu
    1235                1240                1245

Thr Trp  Arg Lys Met Cys Arg  Lys Leu Leu Asp Met  Thr Phe Ser
    1250                1255                1260

Ser Lys  Thr Asn Thr Leu Val  Val Arg Gln Arg Cys  Gly Arg Pro
    1265                1270                1275

Gly Gly  Gly Val Leu Leu Arg  Tyr Gly Ser Gln Leu  Ala Pro Glu
    1280                1285                1290

Thr Phe  Tyr Arg Glu Cys Asp  Met Gln Leu Phe Gly  Pro Trp Gly
    1295                1300                1305

Glu Ile  Val Ser Pro Ser Leu  Ser Pro Ala Thr Ser  Asn Ala Gly
    1310                1315                1320

Gly Cys  Arg Leu Phe Ile Asn  Val Ala Pro His Ala  Arg Ile Ala
    1325                1330                1335

Ile His  Ala Leu Ala Thr Asn  Met Gly Ala Gly Thr  Glu Gly Ala
    1340                1345                1350
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Asn Ala  Ser Tyr Ile Leu Ile  Arg Asp Thr His Ser  Leu Arg Thr
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Thr Ala  Phe His Gly Gln Gln  Val Leu Tyr Trp Glu  Ser Glu Ser
    1370                1375                1380


Ser Gln  Ala Glu Met Glu Phe  Ser Glu Gly Phe Leu  Lys Ala Gln
    1385                1390                1395


Ala Ser  Leu Arg Gly Gln Tyr  Trp Thr Leu Gln Ser  Trp Val Pro
    1400                1405                1410


Glu Met  Gln Asp Pro Gln Ser  Trp Lys Gly Lys Glu  Gly Thr
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Glu Asp



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ag 62

<210> 17
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cc 62

<210> 18
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<212> DNA
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